FIG. 1A

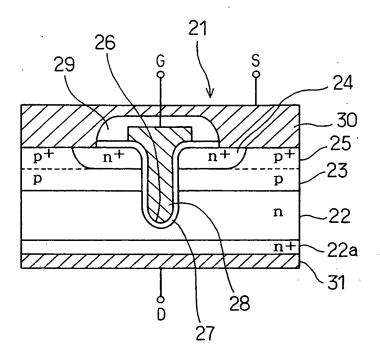
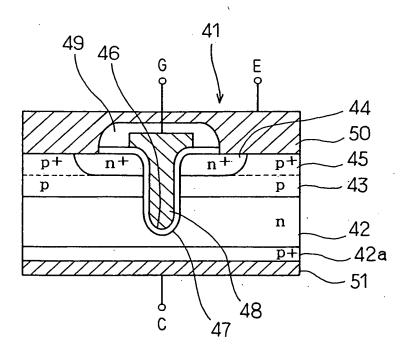
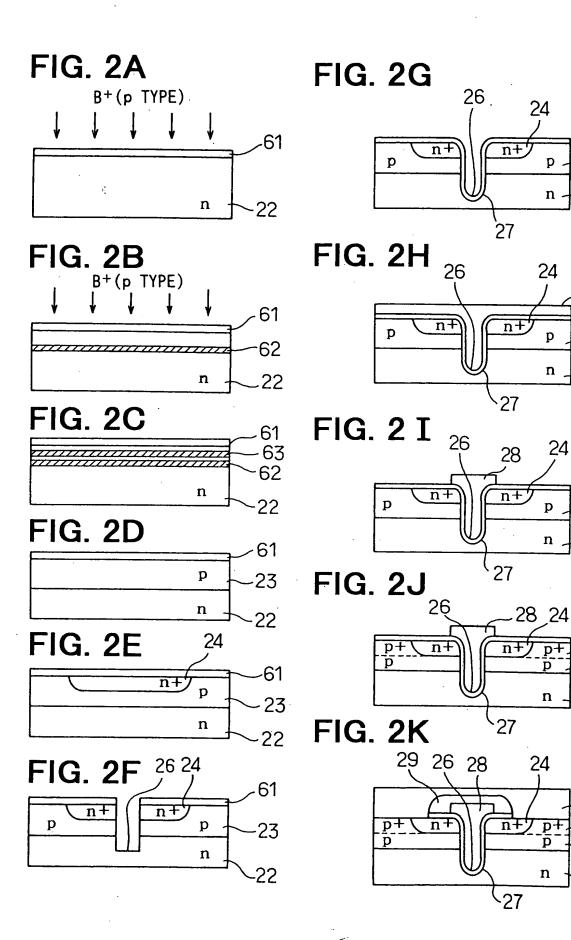


FIG. 1B





-23

-22

64

-23

22

23

-22

25

23

22

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·25 ·23

22

FIG. 3A

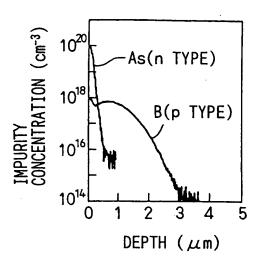


FIG. 3B

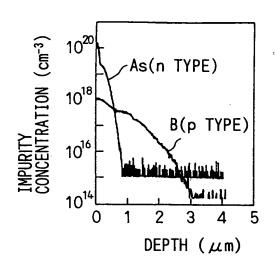


FIG. 4A

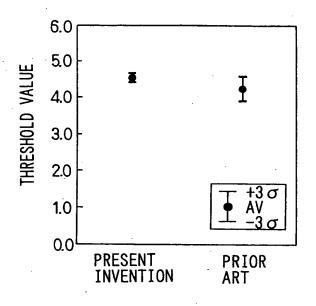


FIG. 4B

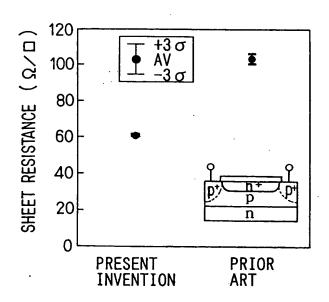


FIG. 5

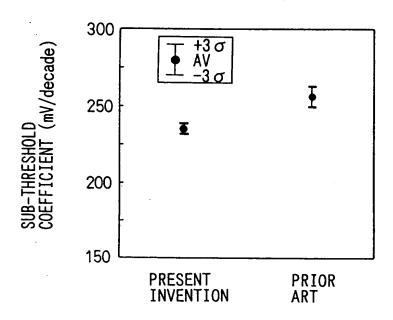


FIG. 6

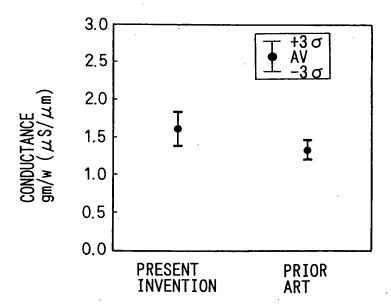


FIG. 7

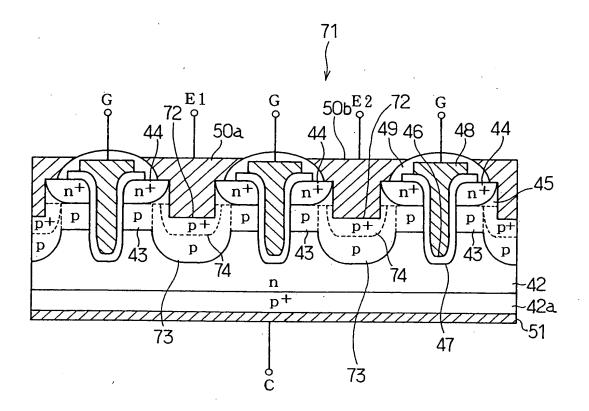


FIG. 8A

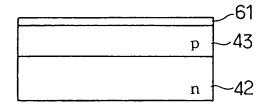


FIG. 8B

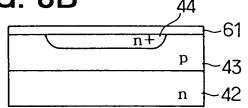


FIG. 8C 46

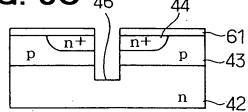


FIG. 8D 46

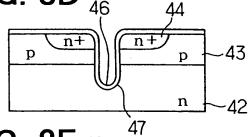


FIG. 8E 46

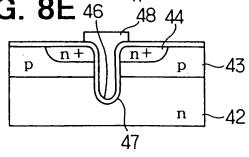


FIG. 8F

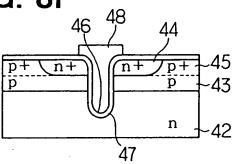


FIG. 8G

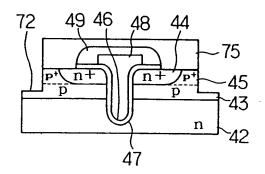


FIG. 9A

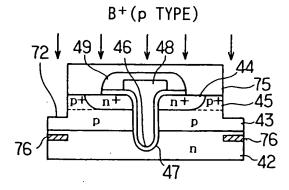


FIG. 9B

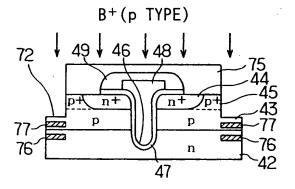


FIG. 9C

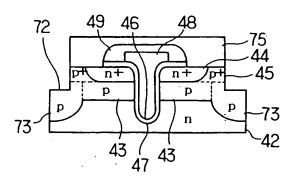


FIG. 9D

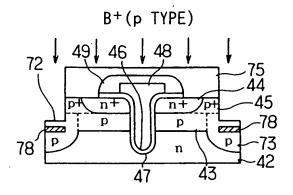


FIG. 9E

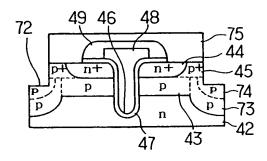
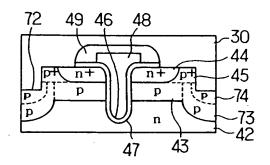
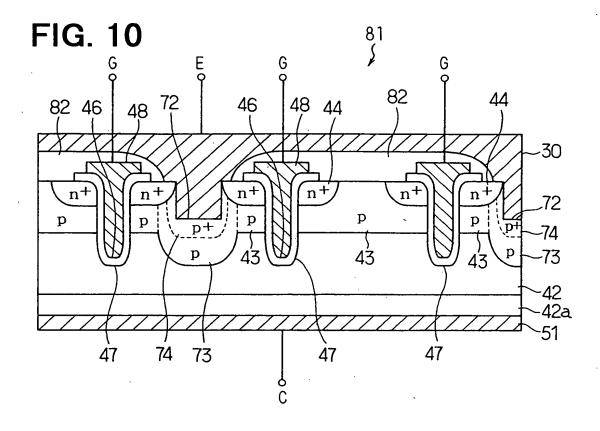
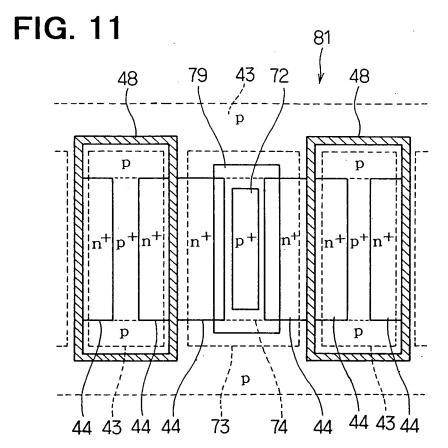
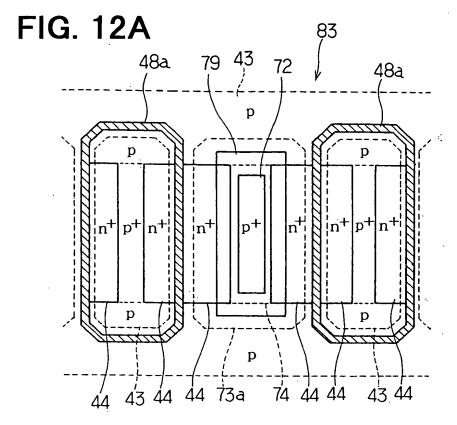


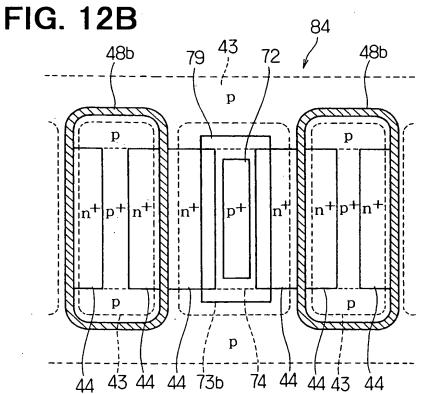
FIG. 9F

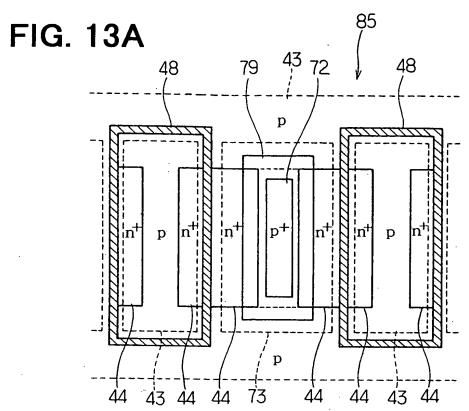












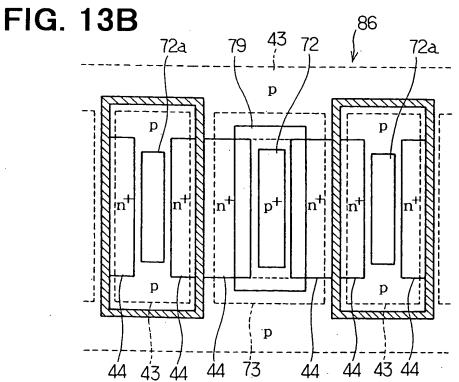


FIG. 14

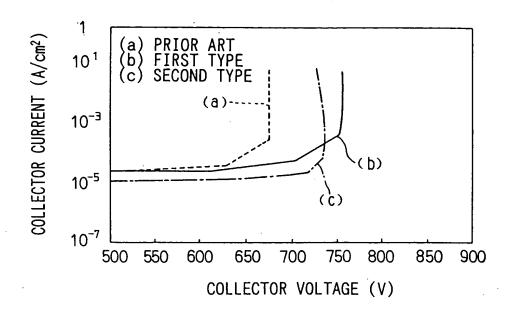
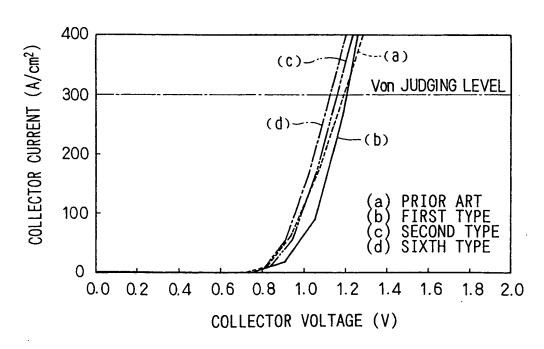


FIG. 16



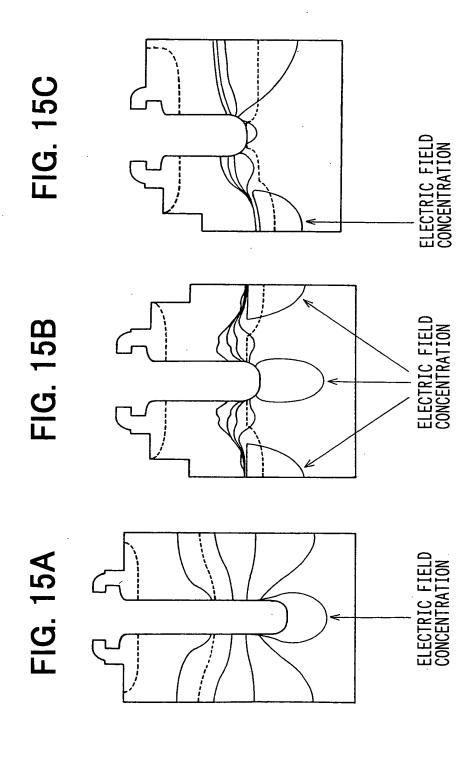


FIG. 17

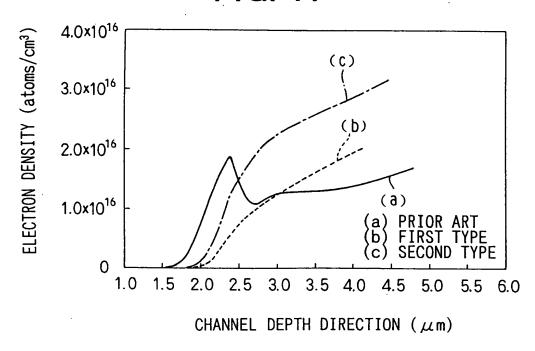
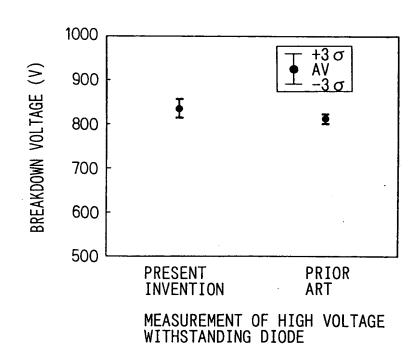
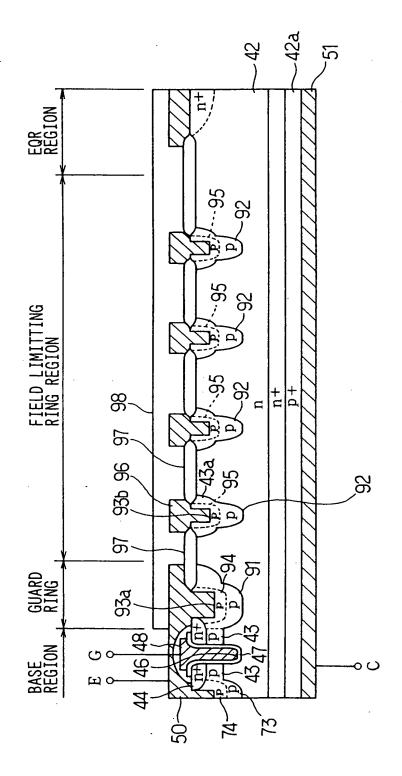


FIG. 19





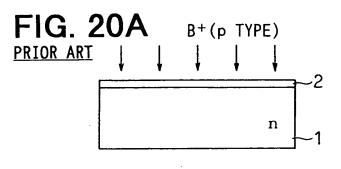
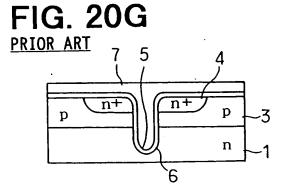
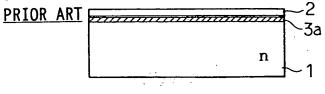
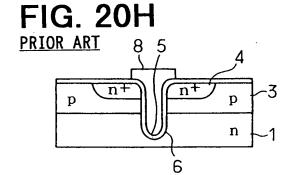
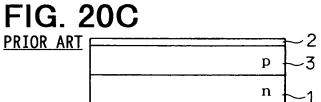


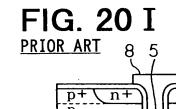
FIG. 20B

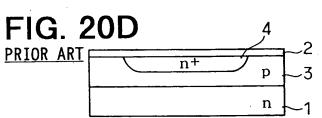


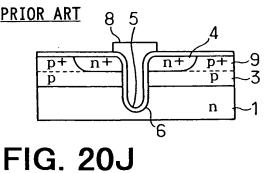


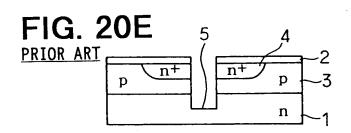


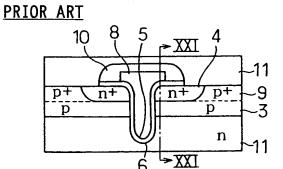


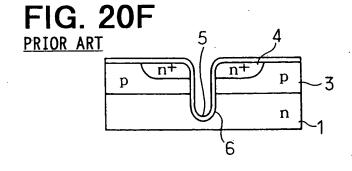










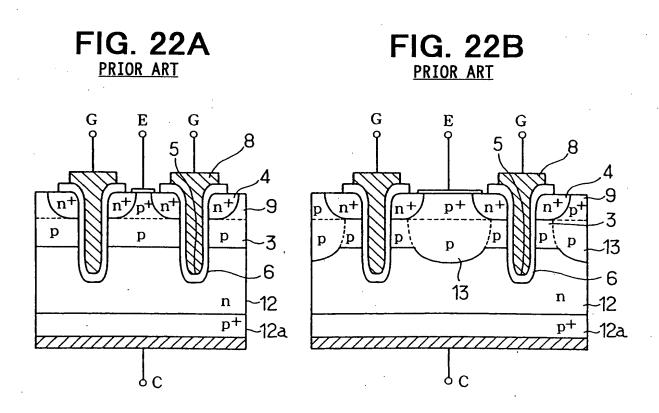


PRIOR ART
HIGHLY DOPED
EMITTER REGION

BASE N-TYPE
REGION SUBSTRATE

(CHANNEL)

n+ p n



DEPTH

FIG. 23A

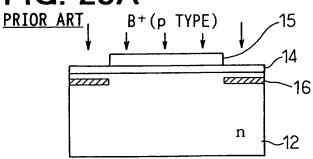


FIG. 23B

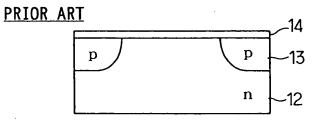


FIG. 23C

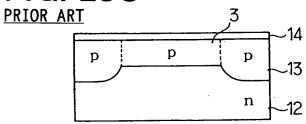


FIG. 23D

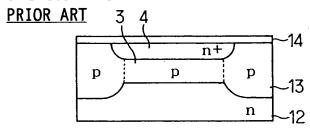


FIG. 23E

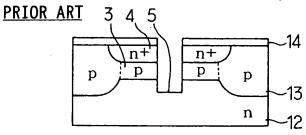


FIG. 23F

PRIOR ART

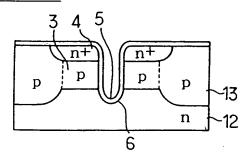


FIG. 23G

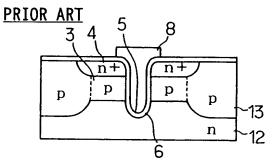


FIG. 23H

PRIOR ART

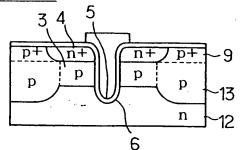
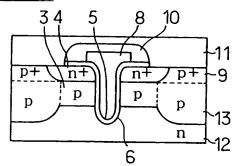


FIG. 23 I

PRIOR ART



EOR REGION FIG. 24 PRIOR ARI 9 GUARD RING <u>(၄</u> ၀ 13